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RÉPUBLIQUE FRANÇAISE

INSTITUT NATIONAL  
DE LA PROPRIÉTÉ INDUSTRIELLE

PARIS

(11) N° de publication :  
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2 268 898

A1

**DEMANDE  
DE BREVET D'INVENTION**

(21)

**N° 74 14352**

(54) Procédé et dispositif pour le nettoyage des articles textiles.

(51) Classification internationale (Int. Cl.<sup>3</sup>). D 06 L 1/04; B 05 C 3/04; D 06 F 21/04.

(22) Date de dépôt ..... 24 avril 1974, à 10 h 20 mn.  
(33) (32) (31) Priorité revendiquée :

(41) Date de la mise à la disposition du public de la demande ..... B.O.P.I. - «Listes» n. 47 du 21-11-1975.

(71) Déposant : CENTRE TECHNIQUE DE LA TEINTURE ET DU NETTOYAGE, résidant en France.

(72) Invention de : Jacky Constant et Michel Perrot.

(73) Titulaire : *Idem* (71)

(74) Mandataire : Cabinet Michel Laurent.

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1165X/07

A35 D24 P06 R42

TELE 240474  
FR 2248-BP1

21148

CENT. TECHN. TENTUR  
24.04.74.FR014352 (26.12.75) 806c03/04 D061-27/04 B061-01/04

Dry cleaning synthetic textiles, esp. polyester - using surfactant org soln

contg emulsified aq detergent compn

A process for dry cleaning textile articles made of synthetic fibres, esp. polyester, comprises treating the articles with a soln. of surfactants in an org. solvent, the soln. also containing emulsified organic detergent component, and injecting steam during the washing cycle. Apparatus for performing the above process is also claimed.

#### ADVANTAGES

The process combines the advantages of dry- and wet-cleaning, removes both greasy and non-greasy stains and dirt, is cheaper and involves shorter washing cycles than wet processes and does not reject the used pollutant water.

#### MATERIALS

The surfactant is pre-comp. as a mixture of anionic and non-ionic agents in the wt. ratio 0.1-1, pref. 0.25-0.5. The aq. detergent compn. is conventional & contains alkylene perborates, Na phosphates, CMC, silicates, surfactants etc. and is used in amounts equal to 0.1% of the surfactants. The solvent is perchloroethylene or 1,1,1-trichloroethane. Vol. ratio of solvent and total injected component,

(solvent + surfactants + detergent + water) is 0.1-0.9, pref. 0.5. Concentration of active components (detergent+surfactants) relative to bath vol. (water + solvent) is 2.5-1.0 g. pref. 5-7.5 g/l.

#### PROCESS

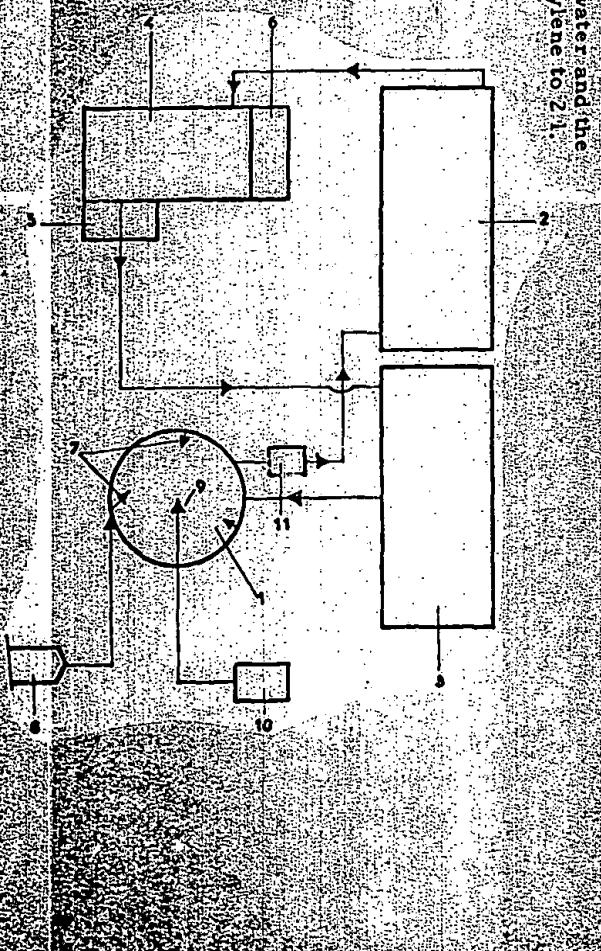
The detergent is dissolved in water, a soln. of the surfactants in the solvent is poured into the aq. soln. and the org. emulsion together with steam simultaneously sprayed over the textile articles. During washing amount of water used is 10-100 wt. % based on dried articles.

#### APPARATUS

This comprises a rotatable drum (1) a container (2) for used solvent, connected to the drum and to a solvent pump (3), a container (4) for clean solvent, also connected to the drum and to the device (5) a device for spraying the solvent and also connecting the emulsion spray device (6) and a cleaning injector (7) located in the centre of the drum and connected to a pressure valve (8). Dirt, waste etc are removed at (6).

#### EXAMPLE

A soln. of 700 g Genuoso NPTIO (RTM) and 20 g Sudome DOSS (RTM) in 300 c.c. perchloroethylene is poured



into a soln. of 90 g Saconege (RTM) in 675 g water and the emulsion obt'd is extended with Perchloroethylene to 2 l. (12 PP)